



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Rabinowitz et al.

Art Unit : 3662

Serial No. : 09/932,010

Examiner : Phan, Dao Linda

Filed : 8/17/2001

Title : Position Location using Terrestrial Digital Video Broadcast Television Signals

Commissioner for Patents

Washington, D.C. 20231

**PRELIMINARY AMENDMENT UNDER 37 CFR 1.115**

Prior to examination, please amend this application as follows:

In the Specification:

Please replace paragraph 0099 with the following paragraph:

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2/10/02  
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b'  
[0099] Now the processing of the DTV channel signal by DSP 1714 is described for a coherent software receiver. A nominal offset frequency for the downconverted sampled signal is assumed. If this signal is downconverted to baseband, the nominal offset is 0Hz. The process generates the complete autocorrelation function based on samples of a signal  $s(t)$ . The process may be implemented far more efficiently for a low duty factor reference signal. Let  $T_i$  be the period of data sampled,  $\omega_{in}$  be the nominal offset of the sampled incident signal, and let  $\omega_{offset}$  be the largest possible offset frequency, due to Doppler shift and oscillator frequency drift. The process implements the pseudocode listed below.

- $R_{max} = 0$
- Create a complex code signal

$$s_{code}(t) = C_i(t) + jC_q(t)$$

## CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit

Signature

Richard A. Dunning, Jr.

Typed or Printed Name of Person Signing Certificate